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# **Nova Scotia Utility and Review Board**

**IN THE MATTER OF**

*The Maritime Link Act, S.N.S 2012 c.9  
and the  
Maritime Link Cost Recovery Process Regulation, N.S. Reg. 189/2012*

**NSPML Quarterly Report Q1 2019**

**April 15, 2019**

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## Table of Contents

|   |    |
|---|----|
| 1.0 Introduction.....                               | 3  |
| 2.0 Update of Project Schedule.....                 | 4  |
| 2.1 Gates and Milestones .....                      | 4  |
| 2.2 Safety.....                                     | 4  |
| 2.3 Commercial Activities.....                      | 5  |
| 2.3.1 Land Access Agreements.....                   | 9  |
| 2.3.2 Funding .....                                 | 9  |
| 2.3.3 Joint Development Agreements.....             | 9  |
| 2.4 Engineering Activities.....                     | 10 |
| 2.5 Submarine Cables.....                           | 10 |
| 2.6 Converters and Substations .....                | 12 |
| 2.7 Transmission Lines .....                        | 12 |
| 2.8 Independent Engineer.....                       | 13 |
| 2.9 Status of Nalcor Project and Muskrat Falls..... | 13 |
| 2.10 Status of Benefits to NS Power Customers.....  | 16 |
| 3.0 Updated Cost Summary .....                      | 17 |
| 4.0 Cost Flow .....                                 | 20 |
| 5.0 Interim Assessment Financial Update 2018 .....  | 21 |

1 **1.0 INTRODUCTION**

2

3 This is the Q1 2019 Quarterly Report for the Maritime Link as directed by the Utility  
4 and Review Board (UARB) where the UARB ordered in its Supplemental Decision:

5

6 [115]....detailed reports must be filed by NSPML on a semi-  
7 annual basis, on June 15 and December 15 each year. The reports  
8 shall commence December 15, 2013. Updated status reports must  
9 be filed quarterly.

10

11 As per the UARB's order in its Decision regarding the Maritime Link Interim Cost  
12 Assessment (M07718), this Report now includes detail regarding the status of the  
13 construction of Nalcor's assets.

14

15 This Decision also requested that the quarterly reports include an accounting of all  
16 transactions related to this project, cash flow analysis, and a reporting of the financial  
17 and other benefits realized for ratepayers from the Maritime Link prior to delivery of  
18 the Nova Scotia Block and Nalcor market-priced energy. Given that the benefits to  
19 ratepayers prior to the Nova Scotia Block and Nalcor market-priced energy are secured  
20 by Nova Scotia Power through the Maritime Link, Nova Scotia Power will report on  
21 these in its Quarterly Fuel Adjustment Mechanism Report.

1 **2.0 UPDATE OF PROJECT SCHEDULE**

2

3 The Maritime Link was placed in-service on January 15, 2018. The construction of  
4 the Maritime Link is complete, with final punch list activities and related remediation  
5 items underway.

6

7 With respect to Nalcor's assets, construction of the Labrador Island Transmission  
8 Link has been completed and the energization phase of the project began in June  
9 2018. The completion of Muskrat Falls continues to be forecast for Q3 2020, and the  
10 Nova Scotia Block continues to be forecast by Nalcor to commence by Q2 2020.

11

12 **2.1 Gates and Milestones**

13

14 The Maritime Link was placed in-service January 15, 2018.

15

16 **2.2 Safety**

17

18 Now into the second year of operations, NSPML's safety management system  
19 continues to evolve and mature. Monitoring and oversight of inspection, maintenance  
20 and remediation contractor activities continues to be a priority focus along with an  
21 overarching review process for all high-risk activities. NSPML remains focused on  
22 maintaining the operational record of zero injuries to staff and contractors while  
23 working on NSPML's assets and sites. The safety of the public and the workers  
24 continues to be the first priority, and NSPML remains committed to a culture that  
25 promotes world class safety behaviours.

26

27

1 **2.3 Commercial Activities**

2

3 The key major procurement activities are presented in Table 1 with an update of the  
 4 status for each initiative.

5

6 **Table 1 Key Major Procurement Activities**

7

| <b>Commercial Activity</b>   | <b>Background</b>   | <b>Initiative Number</b> | <b>Status in April 2019</b>   |
|--|---|--------------------------|---|
| HVDC Submarine Cable Supply and Installation   | <p>The Contract was awarded to Nexans in January 2014.</p> <p>Substantial Completion occurred in September, 2017.</p> <p>Contract Final Completion Certificate signed February 5, 2018.</p> | E11-18                   | Contract Closeout is in progress.   |
| Converter stations, switchyards and related structures (“converters and structures”) | <p>The Contract was awarded to ABB Inc. in June 2014.</p> <p>Final System Test Completed January 15, 2018.</p> <p>Substantial Completion achieved on January 15, 2018.</p>                  | E12-74                   | The last remaining punch list items have been completed. Final documentation and system studies are being completed as well as delivery of final spare parts. |

**NSPML**

| <b>Commercial Activity</b>  | <b>Background</b>   | <b>Initiative Number</b> | <b>Status in April 2019</b>   |
|---|---|--------------------------|---|
| Right of Way Clearing along Transmission Lines                            | Contracts were awarded to Majors Logging Limited in NL and to R. MacLean Forestry in NS in February 2014.   | E13-88                   | Closed  |
| Transmission Structures and Grillages                                     | The Contract was awarded to Kalpataru Power Transmission Ltd. in September 2014 for design and delivery of Structures and Grillages.  | E13-85                   | Contract closeout is in progress.   |
| Site Preparation Services (Includes construction of access road upgrades) | The Contract was awarded to Joneljim Concrete Construction (1994) Ltd. for NS Site Preparation Services in September 2014.<br><br>Contracts awarded to Marine Contractors Inc., MCI Limited Partnership for NL Site Preparation Services in September 2014. | E13-92                   | Closed<br><br>Closed  |
| Transmission Line Construction  | E13-95 contract terminated as of late 2016.<br><br>Contract replaced with E16-284 and E16-269 previously reported.  | E13-95                   | No Change   |
| Transmission Line Construction – NL AC Line                               | The contract with PowerTel was re-assigned to NSPML for the completion of the two Grounding Lines and the HVAC Line.  | E16-284                  | Contract Closeout is in progress. Final Completion was achieved January 31, 2019. |

| <b>Commercial Activity</b>                              | <b>Background</b>  | <b>Initiative Number</b>                     | <b>Status in April 2019</b>                                 |
|---|--|--|---|
| Transmission Line Construction - NL and NS HVDC Lines   | The contract for the construction of the HVDC Transmission Lines was awarded to a joint venture of Emera Utility Services and Rokstad Power Corporation (ERJV).  | E16-269                                      | Contract Closeout remains in progress.                      |
| Transmission Line Conductors                            | <p>The Contract for the supply of conductors was awarded to Midal Cables in March 2015. Contract close-out in progress.</p> <p>The contract for the supply of OPGW was awarded to Composite Power Group Inc. in June 2015. This is also within the scope of the E13-87 initiative.</p>   | E13-87                                       | <p>Contract Closeout remains in progress.</p> <p>Closed</p> |
| Horizontal Directional Drill (HDD) Construction Program | <p>Contract awarded to Directional Horizontal Drilling (DHD) in January 2016.</p> <p>E13-157 was divided into two contracts.</p> <p>E13-157 A was awarded to Schlumberger in March 2016 for the supply of HDD fluids. E13-157B was awarded to Baker Hughes in April 2016 for the Supply of directional drilling services, drill bits and other materials.</p> <p>E13-158 for marine intervention</p> | <p>E13-156</p> <p>E13-157</p> <p>E13-158</p> | <p>Closed</p> <p>Closed</p> <p>Closed</p>                   |

| <b>Commercial Activity</b> | <b>Background</b>  | <b>Initiative Number</b> | <b>Status in April 2019</b> |
|----------------------------|--|--------------------------|-----------------------------|
|                            | <p>services was awarded in April 2016 to DOF Marine.</p> <p>The supply of the HDD casing (E15-238) was awarded to East Coast Tubulars Limited in October 2015.</p> | E15-238                  | Closed                      |
| Accommodations Operations  | The contract for the accommodations operations services was awarded to East Coast Catering in April 2015.  | E13-89                   | Closed                      |

1



1 **2.3.1 Land Access Agreements**

2

3 Title was acquired to the key Project sites by December 31, 2017, as required under  
4 the Federal Loan Guarantee.

5

6 With final land surveys now completed, there are some new and amended easements  
7 required, particularly along the transmission and grounding lines. NSPML continues to  
8 actively pursue these easements, the majority of which are now in place. These  
9 easements do not impact the ability of the project to complete contract closeouts or to  
10 operate according to plan. NSPML expects the majority of the outstanding easements  
11 to be in place by Q3 2019.

12

13 **2.3.2 Funding**

14

15 The IE Certificates allow for Project costs to be paid from the proceeds of the  
16 Maritime Link Construction Loan under the payment terms of the Material Project  
17 Documents and the Maritime Link Credit Agreement. There have been no further  
18 draw certificates since February 2018.

19

20 **2.3.3 Joint Development Agreements**

21

22 NSPML continues to work with Nalcor and NS Power to finalize the remaining  
23 operational agreements arising from the Formal Agreements with Nalcor. Please refer  
24 to Attachment 1 for details on the status of these Agreements, which indicate four  
25 Agreements remain to be concluded.

1 **2.4 Engineering Activities**

2

3 Engineering is captured in three main categories across several Work Breakdown  
4 Structures (“WBSs”):

5

6 • HVDC Submarine Cable Supply and Installation - Completed.

7

8 • HVDC Converters and Substations - The remaining engineering activities  
9 covering the review and acceptance of the last few engineering drawings are  
10 expected to be completed in Q2 2019. The outline covering the last remaining  
11 study for short circuit protection in the system has been agreed to with ABB,  
12 and the associated system models have been developed. The study is planned  
13 to be completed in 2019.

14

15 • Overland Transmission - The remaining light detecting and ranging (LIDAR)  
16 field surveys for NL lines have been completed and accepted by NSPML. The  
17 NL drawings and Power Line Systems Computer Aided Drafting & Design  
18 (PLSCadd) software package used for transmission line modelling and design,  
19 are expected to be completed in Q2 of 2019.

20

21

22 **2.5 Submarine Cables**

23

24 Contract Final Completion Certificate was signed February 5, 2018 and the internal  
25 contract closeout is in progress. The first planned survey and inspection of the subsea  
26 cable installation across the Cabot Strait has been completed.

27

28 There were two findings during this survey that required more detailed inspection  
29 activities and further investigation following the survey:

30 • Occurrences of seabed mobility were observed over approximately a two  
31 kilometre section of each cable near Cape Ray, NL. Planning for continued

1 monitoring and any required remediation continues to be under evaluation. No  
2 immediate remediation is required.

- 3
- 4 • The survey also identified an occurrence of cable contact from a dragged object  
5 in the deep water section of the submarine cable crossing. The cable  
6 manufacturer, Nexans, has assessed that the damage is superficial in nature  
7 with only minor abrasion evident to the outer polyester yarn. Event  
8 investigation will continue into 2019.

9

10 Work planning for 2019 considers the output of the 2018 survey and will continue in  
11 early 2019 in preparation for any remediation work.

12

13 Other marine related activities initiated in 2018 include:

- 14
- 15 • Initiation of a real time vessel monitoring system using Automatic  
16 Identification System (AIS) tracking to monitor and report any abnormal vessel  
17 traffic near the cables.
  - 18
  - 19 • A fisheries assessment was initiated to update operational understanding of any  
20 emerging or changing fishing related risks, which has identified a potential  
21 emerging fishery that will be monitored to determine if further cable protection  
22 will be required in the future.
  - 23
  - 24 • Ice monitoring equipment was deployed nearshore Point Aconi to commence a  
25 process of long-term data collection to inform operations of changing local ice  
26 conditions.

27

28 The final report from the survey is currently being completed. As directed by the  
29 UARB in its letter of October 22, 2018 following the Quarterly Report for Q3,  
30 NSPML will file the report from the survey, once completed, in the subsequent  
31 Quarterly Report.

1 A full survey is planned for both submarine cables in 2019.

2

3 Routine preventative maintenance of the termination and transition sites and related  
4 land based protection, in terms of visual inspection and monitoring, continues on a  
5 regular recurring basis. Visual inspections include site inspections, access road  
6 conditions, fencing, land cable berms and any related items.

7

## 8 **2.6 Converters and Substations**

9

10 The Construction of the Converters and Substations was completed with the  
11 conclusion of system testing and the Maritime Link placed in-service on January 15,  
12 2018. All punch list items have now been completed.

13

## 14 **2.7 Transmission Lines**

15

16 The remediation work on the transmission lines access and right-of-way has been  
17 completed. Completion of the final remaining repairs on some hardware components  
18 of the NL HVDC line is underway.

19

20 NSPML is working with design engineers to reroute a short section of the NL HVAC  
21 line near Southwest Brook, required due to soil erosion on the hillside near the base of  
22 three structures. It is anticipated that the work will be complete in 2019.

23

24 NSPML initiated a planned inspection program for the Maritime Link overhead  
25 transmission lines, with a 100% ground survey completed during the spring and  
26 summer of 2018. This work will continue into 2019.

27

28 The overhead transmission system is generally performing well through the first year  
29 of operations with no significant reliability impacts experienced. Corrective  
30 maintenance requirements were identified in the 2018 inspection program. Corrective  
31 work was either completed in 2018 or scheduled for completion in early 2019. The  
32 root cause analysis for two specific issues associated with accessory components

1 continues and will extend into 2019 with the planned continuation of the transmission  
2 inspection program.

3  
4  
5 **2.8 Independent Engineer**

6  
7 During construction of the Maritime Link, the Independent Engineer (IE) team  
8 completed several site visits and project inspections, at various stages in each province  
9 and provided reports to Canada, all of which have been provided to the UARB in  
10 earlier Quarterly Reports. NSPML has entered into a contract with the IE related to the  
11 Operations phase of the Maritime Link, as per the Federal Loan Guarantee  
12 requirements. Site visits will continue to occur routinely and the IE will provide  
13 annual confirmation to Canada and the Collateral Agent that the assets are being  
14 operated and maintained appropriately.

15  
16 **2.9 Status of Nalcor Project and Muskrat Falls**

17  
18 Nalcor's projected date for first power for Muskrat Falls Generation continues to be  
19 Q4 2019, with full power projected for Q3 2020. The Nova Scotia Block of energy  
20 from Muskrat Falls continues to be projected by Nalcor for Q2 2020, no later than  
21 when the third of four generation units is projected to be commissioned.

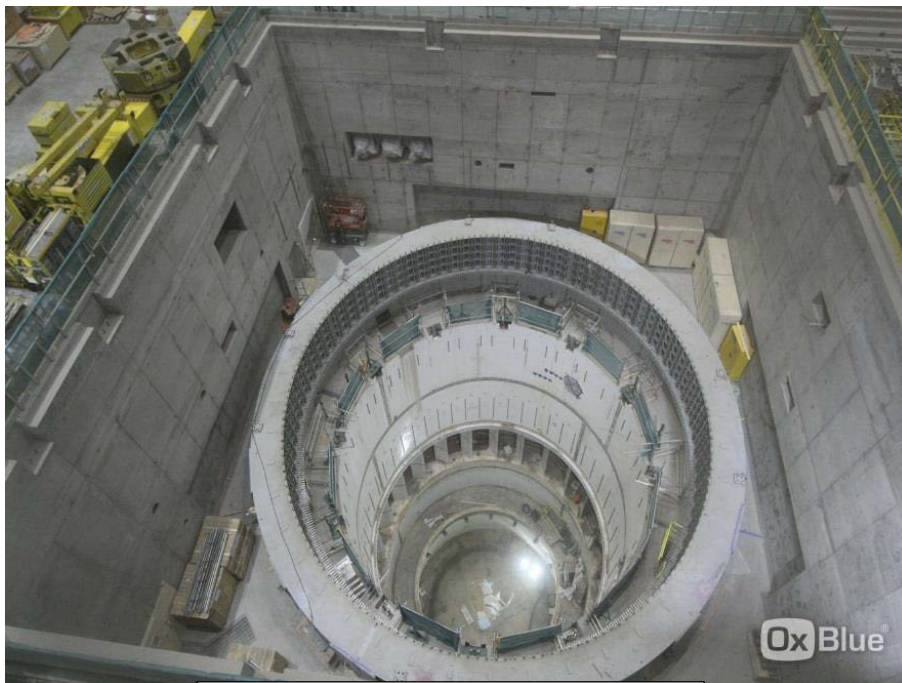
22  
23 The latest report from Nalcor, published on March 18, 2019 indicates the following  
24 progress as of January 2019:

- 25  
26 • Overall construction progress of all components of the Muskrat Falls Project at  
27 the end of January 2019 reached just over 97 percent complete.  
28  
29 • The Muskrat Falls Generating Facility reached 93 percent complete.  
30

- 1           •       Both the Labrador-Island Transmission Link and the transmission line  
2                    connecting Churchill Falls to Muskrat Falls remain at over 99 percent  
3                    complete.

4  
5           Nalcor continue to provide updates consistent with the start of the NS Block as noted  
6           and plan to have the Labrador-Island Link bipole operation in-service prior to first  
7           commercial power. During Nalcor’s Annual General Meeting held on April 9, 2019,  
8           Nalcor’s Chief Executive Officer, Stan Marshall, advised that the cost and schedule  
9           for completion of Muskrat Falls have remained the same since June 2017.

10  
11  
12



13

Unit 1 in the Muskrat Falls Powerhouse



View looking upstream at the Muskrat Falls generating facility

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For the Muskrat Falls Generating Facility, key recent activities include:

- Decommissioning of the upstream cofferdam was completed and the North Dam was placed into service.
- Civil work continued on the Intake, Powerhouse, and Spillway. In the Intake, concrete finishing for Bays 4 and 5, of a total of 12 Bays, has commenced.
- Preservation work on the turbine and generator components continued along with continuation of Unit 1 runner and rotor assembly in the South Service Bay.
- Continuation of work on the balance of plant activities for architectural, electrical and piping work.

- 1           •       Continuation of work on the hydro-mechanical equipment in the powerhouse;  
2                   Units 3 and 4 have been handed over to Pennecon Heavy Civil Ltd. for Stage 7  
3                   concreting.

4

5   **2.10   Status of Benefits to NS Power Customers**

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7           Customer benefits received to date will be reported by NS Power with its Quarterly  
8           Fuel Adjustment Mechanism Report.



1 **3.0 UPDATED COST SUMMARY**

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As per Enerco U-31, section 6, the details below outline the DG3 forecasted costs.

Table 2 provides an updated cost summary for the Maritime Link, which includes actual costs incurred as of December 31, 2018 and forecasted costs for the remainder of the Project’s construction activities.

NSPML continues to track and report all costs, actual and forecast, consistent with the methodologies used in the cost forecast represented in the Maritime Link Project Application. Project costs include fully allocated costs for the entire Project Management Team, including contractors, employees, executives dedicated to the project, and NS Power seconded employees at affiliate mark-up rates according to the Affiliate Code of Conduct. All costs provided are in Canadian dollars.

Actual AFUDC has been tracked and recorded monthly up to December 31, 2017 and totals approximately \$209 million as of that date, which is below the \$230 million amount estimated at the time of filing of NSPML’s Application.

1  
2**Table 2 Updated Cost Summary for the Maritime Link Project**

| Description   | Actual Costs  |                |                |                |                |                |              |              |              |                       | Estimate to Completion | Total Project Estimate at Completion (A) |
|---|---------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|--------------|-----------------------|------------------------|--|
|   | 2011-2013     | 2014           | 2015           | 2016           | 2017           | Q1 2018        | Q2 2018      | Q3 2018      | Q4 2018      | Total Project to Date |                        |  |
| Emera NL Project Management Costs                     | 44,379        | 42,315         | 24,599         | 25,639         | 32,721         | 4,207          | 3,628        | 4,026        | 3,928        | 185,441               | 5,286                  | 190,727                                  |
| Nalcor Project Support Costs                          | -             | 15,232         | 425            | 438            | 257            | (33)           | (110)        | 7            | -            | 16,216                | 285                    | 16,501                                   |
| Construction and Engineering Initiatives              | 14,975        | 167,980        | 259,750        | 403,871        | 478,216        | (7,403)        | (1,934)      | 5,194        | 3,513        | 1,324,162             | 6,160                  | 1,330,322                                |
| Environmental Approval                                | 2,651         | 4,378          | 1,082          | 1,623          | 7,090          | 58             | 625          | 687          | 45           | 18,238                | 197                    | 18,436                                   |
| Submarine and related                                 | 3,359         | 83,797         | 74,439         | 54,213         | 115,511        | 19             | (5,939)      | 10           | 13           | 325,422               | -                      | 325,422                                  |
| Converters, structures, and other ancillary equipment | 1,517         | 48,747         | 106,195        | 227,643        | 157,614        | (513)          | 2,811        | 900          | 2,199        | 547,113               | 3,942                  | 551,055                                  |
| AC and DC Transmission                                | 7,448         | 31,057         | 78,035         | 120,392        | 198,001        | (6,967)        | 569          | 3,597        | 1,256        | 433,389               | 2,021                  | 435,410                                  |
| <b>Total</b>  | <b>59,354</b> | <b>225,527</b> | <b>284,774</b> | <b>429,948</b> | <b>511,194</b> | <b>(3,229)</b> | <b>1,584</b> | <b>9,227</b> | <b>7,441</b> | <b>1,525,819</b>      | <b>11,732</b>          | <b>1,537,551</b>                         |
| Escalation  |               |                |                |                |                |                |              |              |              | -                     | 32,454                 | 32,454                                   |
| Contingency   |               |                |                |                |                |                |              |              |              | -                     | 7,349                  | 7,349                                    |
| <b>Grand Total</b>                                    | <b>59,354</b> | <b>225,527</b> | <b>284,774</b> | <b>429,948</b> | <b>511,194</b> | <b>(3,229)</b> | <b>1,584</b> | <b>9,227</b> | <b>7,441</b> | <b>1,525,819</b>      | <b>51,535</b>          | <b>1,577,354</b>                         |

3  
4

1 **Total Actual Project Costs at end of Q4 2018 Compared to Previous Forecast**

2  
3 The total actual project capital costs incurred during Q4 2018 of \$7,441,000 are  
4 detailed below:

- 5  
6 • Emera NL Project Management Costs of \$3,928,000: Project management  
7 costs continue to be incurred as work advances relating to closing out of  
8 contracts, procuring and managing remediation and punch list activities, and  
9 ensuring appropriate documentation are in place for project closeout and  
10 regulatory purposes. NSPML has segregated these capital costs from costs  
11 relating to operating and maintenance activities and have expensed such  
12 operating and maintenance costs accordingly.
- 13  
14 • Nalcor Project Support of \$0: This reflects Nalcor services relating to  
15 construction activities.
- 16  
17 • Environmental Approval (EA) of \$45,000: This reflects the cost of EA  
18 monitoring and finalization of EA related compensation.
- 19  
20 • Submarine and related activities of \$13,000: This reflects security services for  
21 the spare submarine cable.
- 22  
23 • Converters, structures, and other ancillary equipment of \$2,199,000: This  
24 reflects the cost of NLH and NS Power system upgrades and modifications, as  
25 well as the construction of material spares buildings in both provinces.
- 26  
27 • AC and DC Transmission of \$1,256,000: This reflects the costs of punch list,  
28 remediation and transmission line inspection activities.

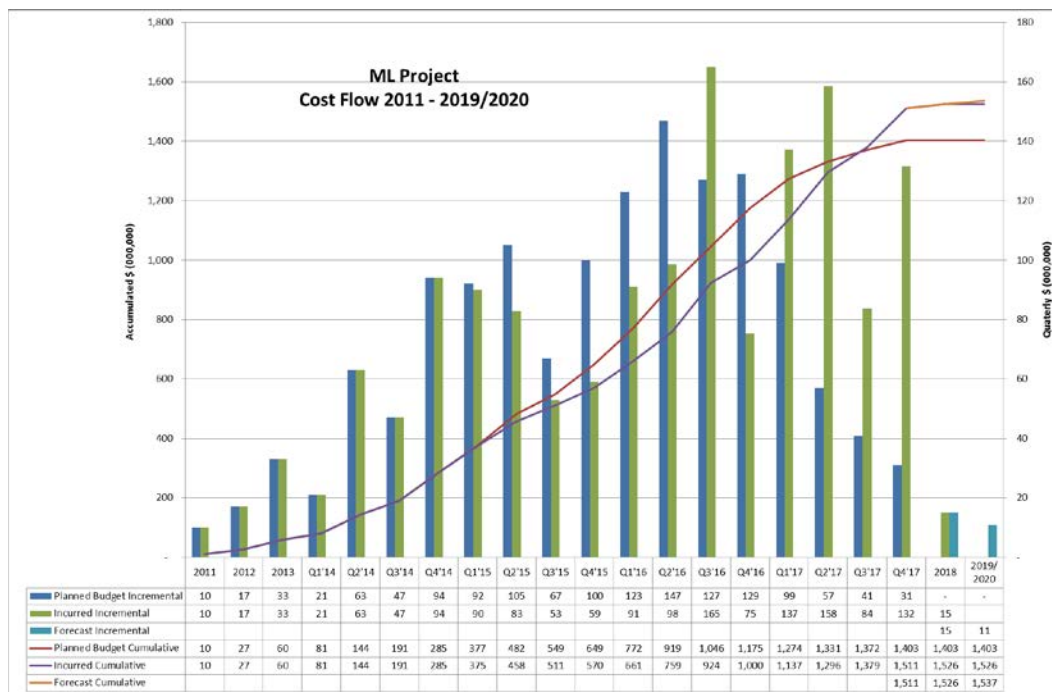
29  
30 The Project remains within budget.

4.0 COST FLOW

As per Enerco U-31, section 2.2, please refer to Table 3 below for the cost flow of the Maritime Link.

The remaining budget includes forecasted costs relating to completing documentation and close out payments to contractors, remediation costs, as well as regulatory and environmental requirements relating to the construction aspect of the project. Certain of these costs are expected to take place in 2019/2020 and may require further draws on remaining budgeted contingency and escalation balances. The total forecast of base capital spending, escalation, and contingency amounts for the project remains at or below \$1.577 billion.

Table 3 Maritime Link Cost Flow



1 **5.0 INTERIM ASSESSMENT FINANCIAL UPDATE 2018**

2

3 With the Maritime Link placed in-service on January 15, 2018, NSPML continues to  
4 receive monthly revenues from NS Power pursuant to the Board's November 2, 2017  
5 Order. NSPML forecasts its 2019 operating and maintenance, debt and equity  
6 financing costs to be within the amounts budgeted for the year. The actual costs in  
7 2018 were as reported in NSPML's audited financial statements recently filed with the  
8 UARB.

**Operating Agreement Requirements Arising from the Formal Agreements**

|     | <b>Agreement</b>  | <b>Parties</b>            | <b>Description</b>  | <b>Formal Agreement Source</b> | <b>Status</b>   |
|-----|---|---------------------------|---|--------------------------------|---|
| 1.  | Asset Interconnection Agreement (NL)                          | Emera, NLH                | Interconnection of ML with the Island Interconnected System   | ML-JDA, s. 2.1 (c )            | Completed   |
| 2.  | Multi-Party Pooling Agreement                                 | Emera, NLH                | NLH (SO) to have operational control of ML NLH AC Upgrades  | ML-JDA, s. 2.1 (d )            | Completed   |
| 3.  | Transmission Operating Agreement (NL)                         | Emera, NLH                | NLH (SO) to have operational control of ML NL HVdc Facilities   | ML-JDA, s. 2.1 (e )            | Completed   |
| 4.  | Asset Interconnection Agreement (NS)                          | Emera, NSPI               | Interconnection of ML with NS bulk electric transmission system   | ML-JDA, s. 2.1 (f )(i)         | Completed   |
| 5.  | Transmission Operating Agreement (NS)                         | Emera, NSPI               | NS SO to have general operational control of the ML   | ML-JDA, s. 2.1 (f )(ii)        | Completed   |
| 6.  | ECA – Metering and Measuring Standards – Transmission Losses  | NSPML, Nalcor             | Metering and measuring standards used in the calculation of Transmission Losses                                 | ECA, Schedule 3, s. 5          | Completed   |
| 7.  | Regulation Service Agreement                                  | NS Power<br>NLH           | Nalcor’s provision of the Regulation Service with respect to the Nova Scotia Block for the Initial Term         | ECA, Schedule 5                | Expect completion in 2019                             |
| 8.  | Metering and Measuring Standards – NS NTQ transmission losses | NSPML, Nalcor             | Metering and measuring standards used in calculation of NS –NTQ Path Peak and Off-Peak Hour transmission losses | NSTUA, Schedule 3, s. 6        | Completed   |
| 9.  | NB Back-up Capacity Agreement                                 | Bayside Power L.P, Nalcor | Emera’s provision of backup Capacity to NB to Nalcor until March 31, 2021                                       | NBTUA, s. 2.1(d)               | No longer required given sale of Bayside to NB Power. |
| 10. | IOA – ML Transmission Procedures                              | NSPI, NLH                 | Rules and practices applicable to administration of transmission service over the ML                            | IOA, Schedule D                | Completed   |
| 11. | IOA – Reserve Sharing   | NSPI, NLH                 | Sharing of energy and reserves between the Parties to improve Reliability                                       | IOA, Schedule A                | Completed   |
| 12. | IOA – Description of Interconnection Facilities               | NSPI, NLH                 | Description of Interconnection Facilities for which each Party is responsible                                   | IOA, Schedule B                | Completed   |
| 13. | IOA – Functional Operating Relationship                       | NSPI, NLH                 | Various matters relating to operating relationship  | IOA, Schedule C                | Completed   |
| 14. | IOA – Operating Procedures                                    | NSPI, NLH                 | IOC to develop “operating procedures”   | IOA s.7.2 and s. 7.4(a)        | Completed   |

|     |  |   |   |  |                           |
|-----|--|---|---|--|---------------------------|
| 15. | IOA – Schedule A1.0                                    | NSPI, NLH   | Parties to prepare a plan for NLH participation in Reliability Assessment Program (“RAP”)   | IOA Schedule A1.0  | Completed                 |
| 16. | ML TSA – ML Scheduling Process                         | Emera and Nalcor                                      | Scheduling process applicable to the provision of Firm Point-to-Point Transmission Service  | MLTSAs, Schedule 2   | Completed                 |
| 17. | Amendments to Formal Agreements                        | Emera, Nalcor   | Amendments to Formal Agreements required by Sanction Agreement                              | Sanction Agreement   | Completed                 |
| 18. | Energy Access Agreement                                | Emera, Nalcor   | Commitments regarding access to market priced energy  | Compliance Filing, Appendix A                              | Completed                 |
| 19. | Balancing Service Agreement                            | Emera, Nalcor   | Nalcor commitment to provide balancing services from generation sources in NL for 25 years. | Energy Access Agreement Term Sheet, s. 7(g) and Appendix 1 | Completed                 |
| 20. | Assignment of Transmission Rights under ML(E)TSA       | Emera, Nalcor   | Assignment of Transmission Rights   | ML(E)TSA, s. 3.3 (h)                                       | Expect completion in 2019 |
| 21. | Assignment of Energy Access Agreement                  | Emera, Nalcor, NSPI and Nalcor Energy Marketing (NEM) | Assignment/assumption of Nalcor’s rights and obligations to/by NEM                          | EAA s. 15.1 (a)  | Expect completion in 2019 |
| 22. | Assignment of Nalcor Master Agreement (EAA Schedule 2) | Nalcor, NSPI and NEM                                  | Assignment/assumption of Nalcor’s rights and obligations to/by NEM                          | Nalcor Master Agreement s. 10.5 (a)                        | Expect completion in 2019 |
| 23. | JOA-Joint Operating Committee (“JOC”)                  | Nalcor and NSPML                                      | Establish/Operationalize JOC  | JOA s. 3.1, 3.5  | Completed                 |
| 24. | NS Transmission Utilization Agreement                  | Nalcor and Emera                                      | Status of Emera firm Point to Point Transmission Service                                    | NSTUA s.s.2.2 (a)-(c)                                      | Completed                 |